

Yahya Ansari

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SUMMARY

Innovative and deadline-driven Data science enthusiast with 6+ months of experience in training and developing machine learning models for different use cases from initial concept to final, polished deliverable.

PROJECT EXPERIENCE

Book Recommendation System - Unsupervised ML

Mumbai

AlmaBetter

May 2023 - Jun 2023

- Leveraged unsupervised learning techniques to develop a book recommendation system, resulting in personalized recommendations for users.
- Conducted exploratory data analysis and visualization to gain insights on the dataset, including identifying missing values and outliers in the age column, as well as discovering key trends such as the top-rated book and author.
- Built multiple recommender systems including popularity-based filtering, correlation-based recommendations, collaborative filtering using cosine similarity and k-nearest neighbors, contributing to an increase in overall efficiency of the recommendation algorithm and deployed the flask app using kNN model.

Cardiovascular Risk Prediction - Classification

Mumbai

AlmaBetter

Apr 2023 - May 2023

- Utilized machine learning techniques to predict 10-year risk of coronary heart disease (CHD) in patients using data from the Framingham Heart Study.
- Conducted extensive data preprocessing and feature selection to identify the most important risk factors for CHD and balanced class distribution using SMOTE combined with Tomek links technique.
- Developed a final prediction model using a tuned Neural Network that achieved a high recall score, accurately identifying patients at risk for CHD and deployed the model on cardio.pythonanywhere.com

Seoul Bike Sharing Demand Prediction - Regression

Mumbai

AlmaBetter

Jan 2023 - Feb 2023

- Developed a machine learning model to accurately predict bike rental demand in Seoul, South Korea using regression analysis techniques.
- Trained the model on historical bike rental data along with relevant weather and time data, achieving an accuracy of around 93% on the training data and 90% on the test data using the Xtreme gradient boosting algorithm, also deployed the project using flask app on yahyaansari62.pythonanywhere.com
- Demonstrated the practical applications of machine learning in addressing real-world transportation problems and optimizing bike sharing operations.

Telecom Churn - Exploratory Data Analysis

Mumbai

AlmaBetter

Dec 2022 - Jan 2023

- Analyzed a churn dataset in the telecommunications industry to identify the main factors contributing to customer churn and gain valuable insights.
- Conducted exploratory data analysis using pandas, seaborn, matplotlib.pyplot library and google colaboratory to gain insight into the churn dataset.
- Provided valuable insights to help prioritize retention and reduce customer churn in a well-established market with a slow rate of new customers.

Python Programs for Engineering CFD

Mumbai

Self Project

May 2021 - Jun 2021

- Created 4 Python programs for engineering computational fluid dynamics problems to learn Python programming and packages like pandas and matplotlib.

- Developed TDMA-Solver, FVM-1D-Steady-State-Diffusion-solver, Convection-Diffusion-1D-Steady-State and TRANSIENT-1D-Unsteady-State-Diffusion-solver.
- Demonstrated proficiency in Python programming and the use of relevant packages for solving complex engineering problems.

Design and Development of Lower Body Exoskeleton

Mumbai

Engineering

Jun 2018 - Mar 2019

- Developed a cost-effective lower body exoskeleton that effectively traced a humanoid gait cycle when operated.
- Worked as the lead designer on the team responsible for the development of the exoskeleton.
- Demonstrated proficiency in design and engineering to create a functional and cost-effective solution to a complex problem.

WORK EXPERIENCE

Dimintics Infotech Pvt. Ltd.

Remote

Subject Matter Expert - Fulltime Intern

Dec 2021 - Jun 2022

- Reviewed and edited existing course content for Thermodynamics and Fluid Mechanics courses, improving accuracy by 15% and ensuring alignment with industry standards.
- Created high quality solutions for mechanical engineering subjects as per the guidelines.

Digipplus

Remote

Subject Matter Expert - Fulltime Intern

Oct 2022 - Dec 2022

- Reviewed and edited 100+ solutions daily for class 6-10 Mathematics, ensuring accuracy and adherence to strict guidelines.
- Implemented innovative approaches to increase efficiency and quality of content review, resulting in a 30% decrease in error rate.
- Worked collaboratively with cross-functional teams to provide timely feedback on content review processes, leading to a 20% increase in overall productivity.

EDUCATION

M. H. Saboo Siddik College of Engineering

Mumbai

Bachelors of Engineering in Automobile Engineering



SKILLS & INTERESTS

Skills: Microsoft Office (Excel, Word, PowerPoint), SolidWorks, Ansys, Git, GitHub, Python, SQL (postgre), Machine Learning

Interests: Machine Learning, Artificial intelligence, Predictive modeling, Natural language processing, Deep learning, Neural networks, Computer vision

COURSES & CERTIFICATIONS

AlmaBetter

Full Stack Data Science Course



Great Learning

Data Visualization using Python



Hackerrank

Python (Basic) Certificate



Hackerrank

SQL (Basic) Certificate

